

Figure 1

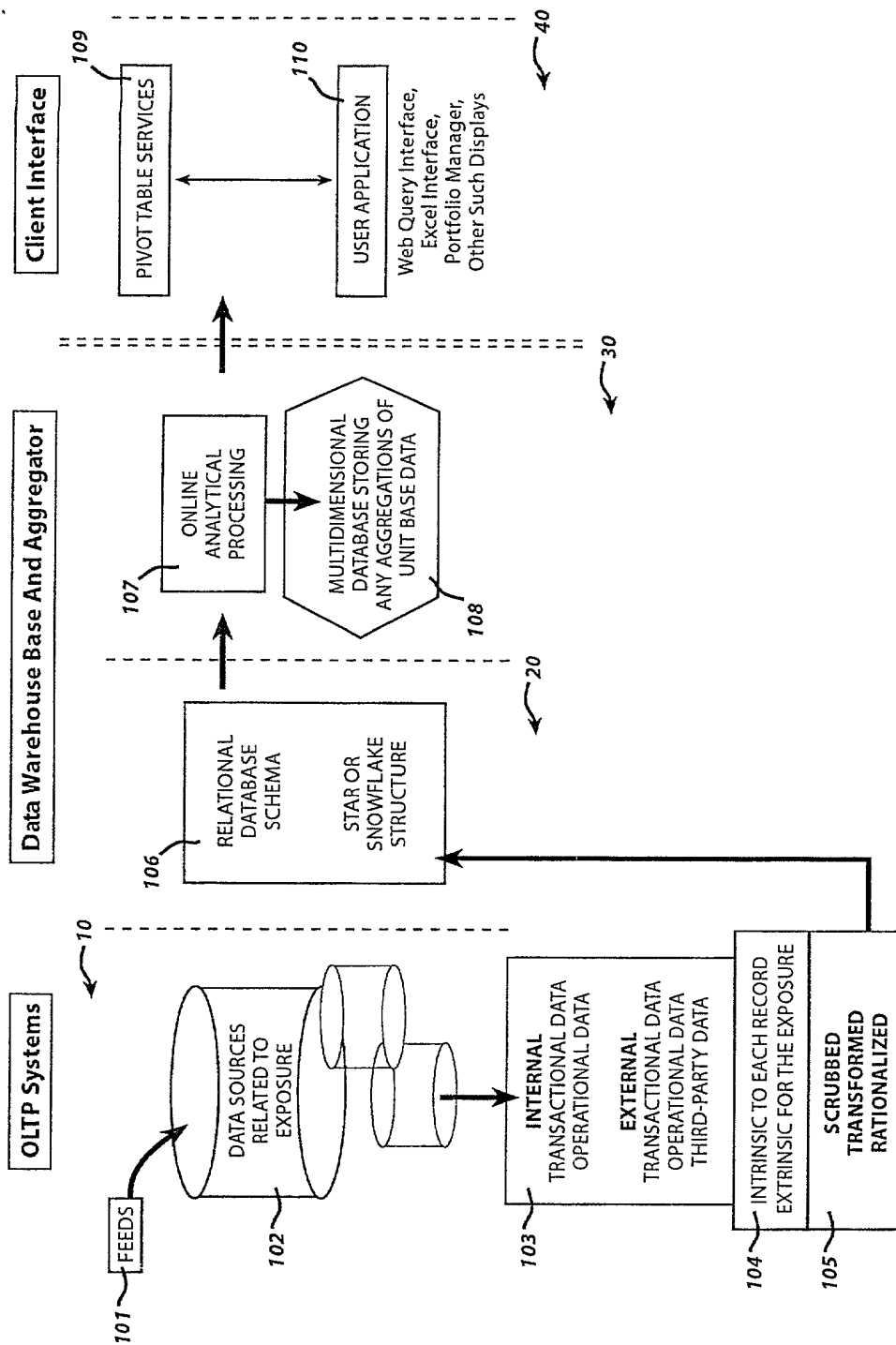
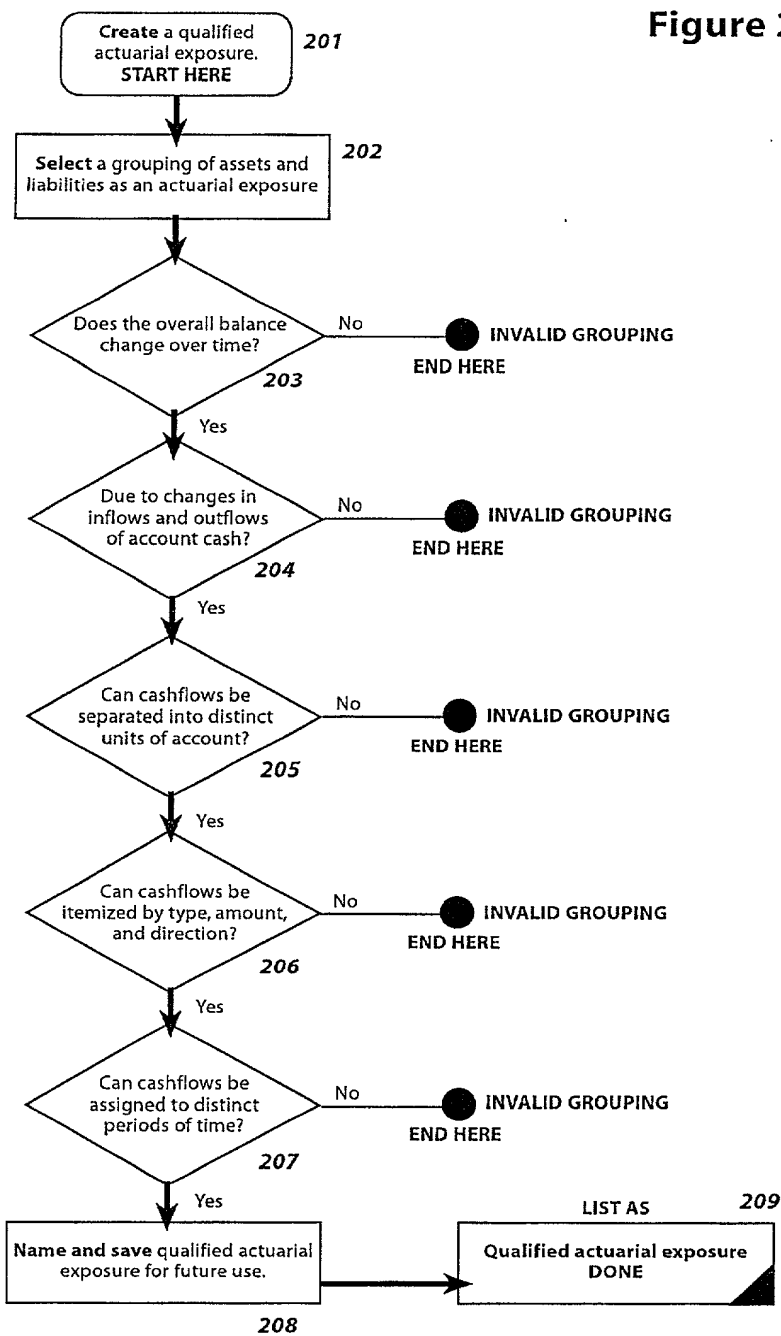


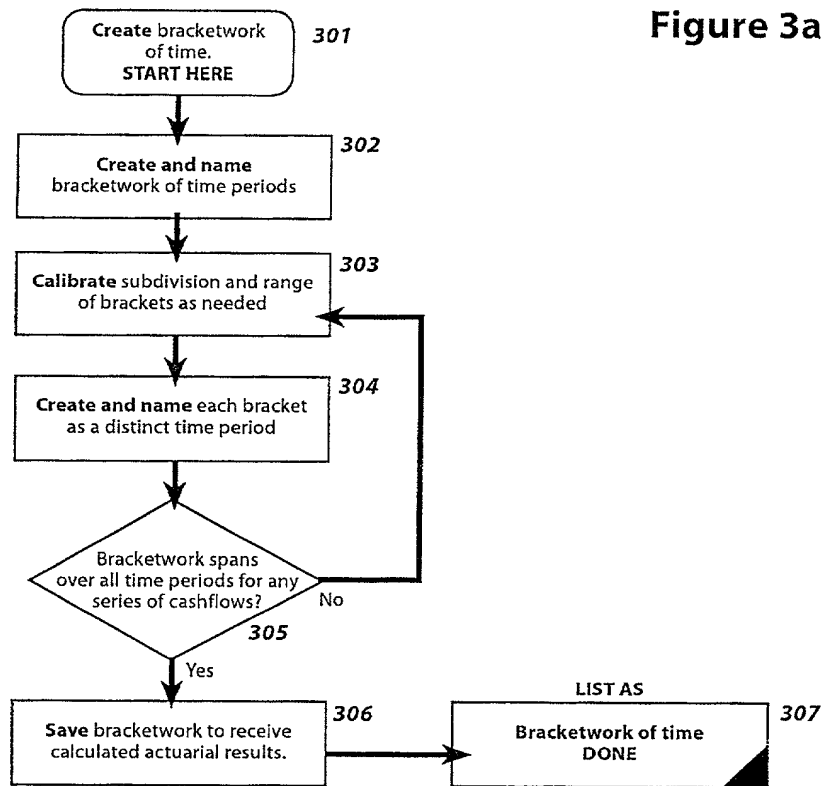
Figure 2a



092015.030101



Figure 3a



09520176.080101

Figure 3b

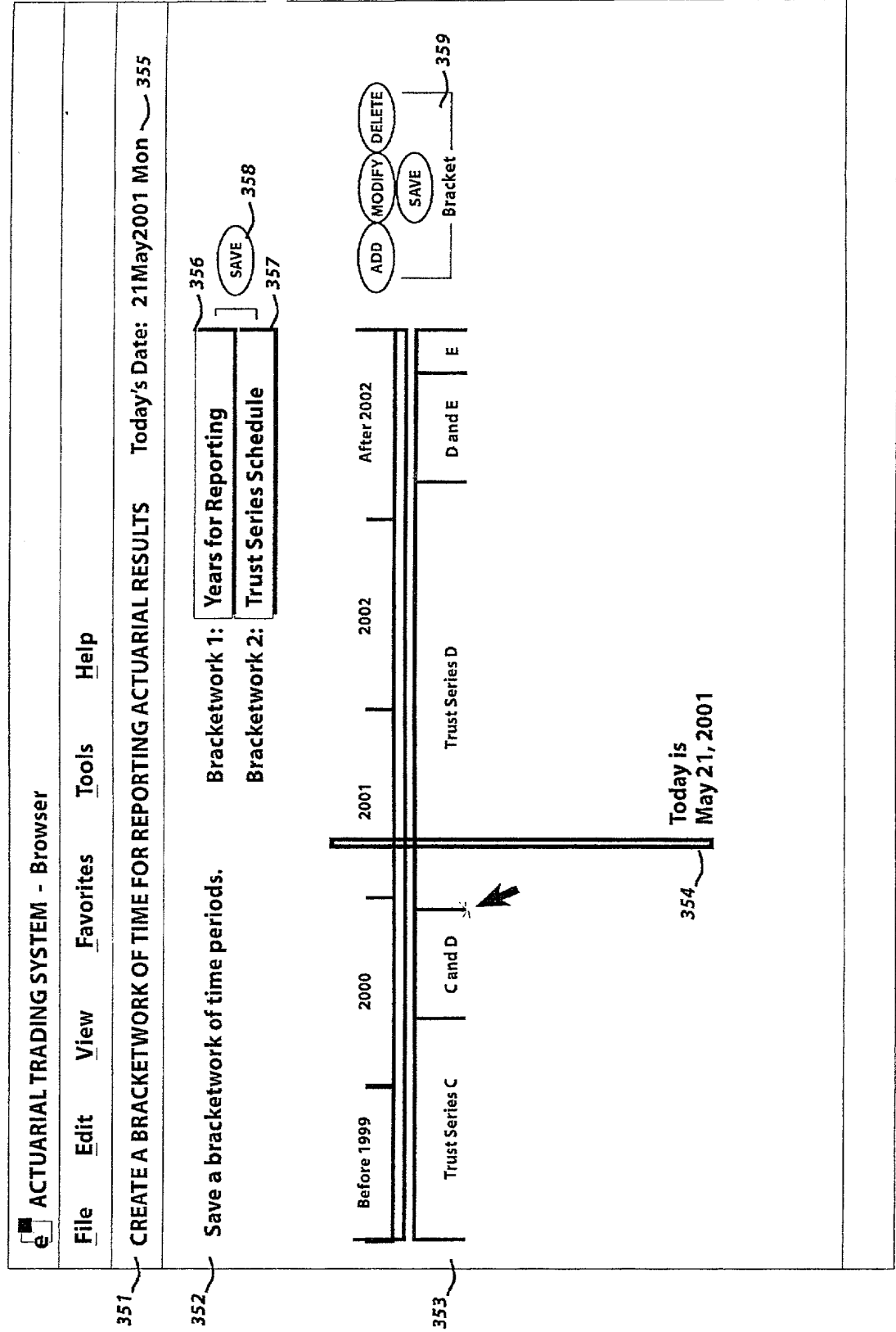
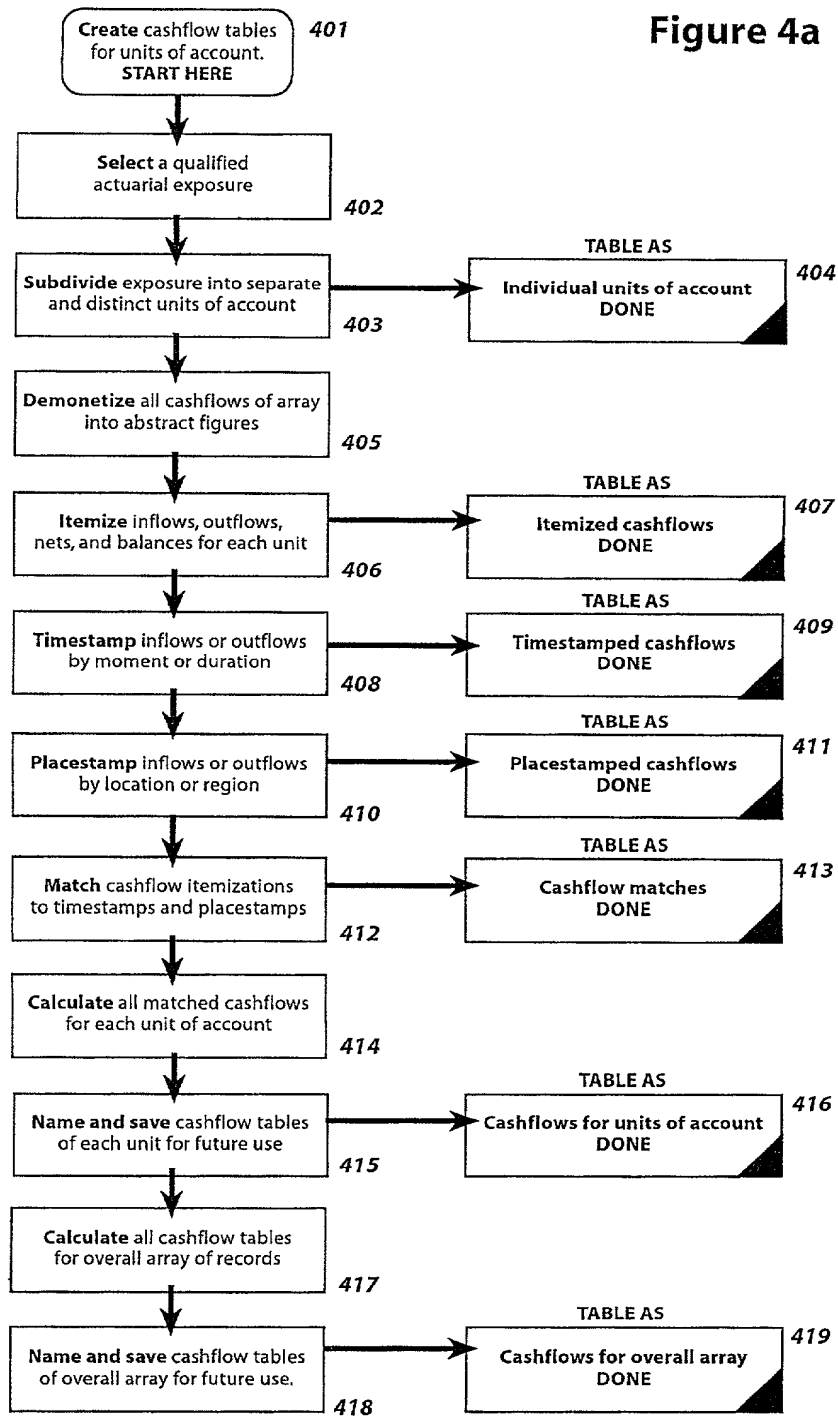


Figure 4a



### Figure 4b

## e ACTUARIAL TRADING SYSTEM - Browser

File Edit View Favorites Tools Help

## CREATE CASHFLOW TABLES FOR UNITS OF ACCOUNT

21 May 2001 Mon ~ 460

**Save cashflow tables of overall array.**

**Cashflow Tables: XYZ SuperCard BlueCode**

## UNITS OF ACCOUNT

459

**Default**

**Gabriel Lua**  
3336 of 10,000

3336 of 10,000

220

**-780**

1000

### Cashflow Itemization

Inflow 1

\$220.02 paid

April 22

### Outflow 1

**ADD**

MODIFY D

**DELETE**

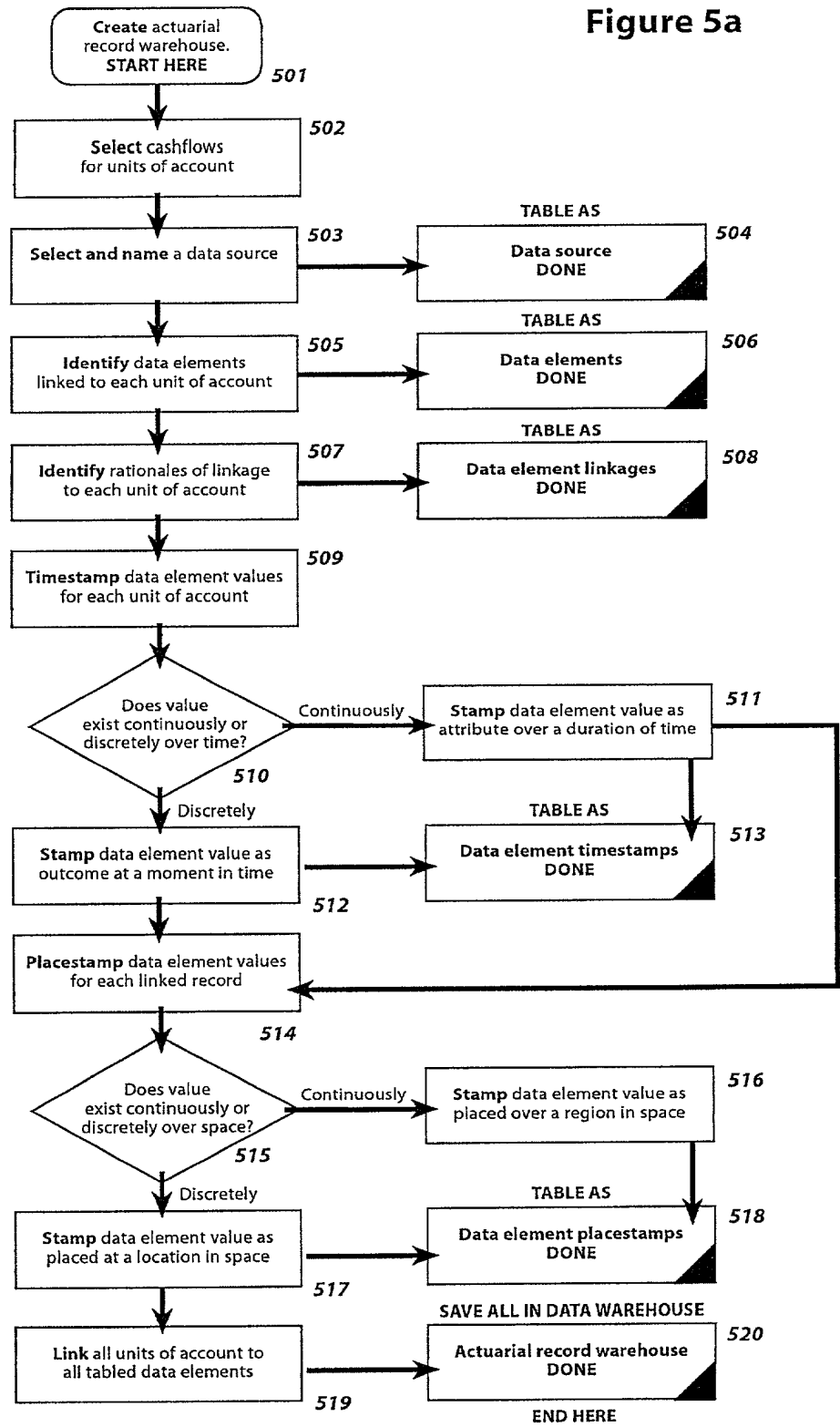
**SAVE**

### Cashflow Table

**LAPSED**

-454

Figure 5a



092015-08101



Figure 5b

**ACTUARIAL TRADING SYSTEM - Browser**

File Edit View Favorites Tools Help

551 CREATE ACTUARIAL DATA WAREHOUSE 21May2001 Mon 560

552 Save actuarial data warehouse. Cashflow Tables: **XYZ SuperCard BlueCode** 554

Warehouse Name: **Warehouse 17** 555

**SAVE** 556

553

**UNITS OF ACCOUNT**

Alvin Adams 24 of 2400	Mary Baker 24 of 2400	Ed Alwik 24 of 2400	Cherry Adams 24 of 2400	Joanne Alwik 24 of 2400	Flora Adams 24 of 2400	Marcus Adams 24 of 2400	Melissa Adams 24 of 2400	...	...
Angie Burns 24 of 2400	Kim Burton 24 of 2400	Joey Burton 24 of 2400	Oscar Burton 24 of 2400	Martin Burton 24 of 2400	Felicia Bush 24 of 2400	Steve Bush 24 of 2400	Andy Butler 24 of 2400	...	...
Heidi Cobb 24 of 2400	Joan Cobb 24 of 2400	Steve Cobb 24 of 2400	Ann Cobb 24 of 2400	Max Cobb 24 of 2400	Byron Cobb 24 of 2400	Bill Cobb 24 of 2400	Sam Cobb 24 of 2400	...	...
Bill Brown 24 of 2400	Freddie Brown 24 of 2400	Default	Eric Mac Taggart 24 of 2400	Marc Taggart 24 of 2400	Sammy Taggart 24 of 2400	Eric Taggart 24 of 2400	Berry Taggart 24 of 2400	...	...
John Hill 24 of 2400	Erin Hill 24 of 2400	Oscar Hill 24 of 2400	Mike Hill 24 of 2400	Phil Hill 24 of 2400	Wilbur Hill 24 of 2400	Lawrence Hill 24 of 2400	...	...	...
Erly Knight 24 of 2400	Severus Knight 24 of 2400	Mike Knight 24 of 2400	Anne Knight 24 of 2400	Jack Knight 24 of 2400	Henry Knight 24 of 2400	...	...	...	...
John Lewis 24 of 2400	Kim Lewis 24 of 2400	Gabriel Lua 24 of 2400	Greg Lewis 24 of 2400	Betty Lua 24 of 2400	Marc Lua 24 of 2400	...	...	...	...
Rebecca Moore 24 of 2400	William Moore 24 of 2400	...	...	...	...	...	...	...	...
Honey Noble 24 of 2400	Pete Noble 24 of 2400	...	...	...	...	...	...	...	...
George Freeman 24 of 2400	Lois Freeman 24 of 2400	Stephen Freeman 24 of 2400	...	...	...	...	...	...	...
Robert Rose 24 of 2400	Shelley Rose 24 of 2400	Ray Rose 24 of 2400	...	...	...	...	...	...	...
Heidi Burton 24 of 2400	Kelli Rose 24 of 2400	Walter Bush 24 of 2400	...	...	...	...	...	...	...
Sammy Butler 24 of 2400	Joan Cobb 24 of 2400	Dan Taggart 24 of 2400	...	...	...	...	...	...	...
Don Skender 24 of 2400	John Skender 24 of 2400	Gerard Skender 24 of 2400	...	...	...	...	...	...	...
Margot Skender 24 of 2400	Andrew Skender 24 of 2400	Phil Skender 24 of 2400	...	...	...	...	...	...	...
Stacy Truitt 24 of 2400	Karen Truitt 24 of 2400	John Truitt 24 of 2400	...	...	...	...	...	...	...
Will Truitt 24 of 2400	Marc Truitt 24 of 2400	...	...	...	...	...	...	...	...
Vera View 24 of 2400	Bill View 24 of 2400	...	...	...	...	...	...	...	...

557

**Gabriel Lua**  
3336 of 10,000

220  
-780  
1000

**Data Elements**

001  
Married?  
Single  
Application  
Alltime  
Allspace

002  
Gender?  
Males  
Application  
Alltime  
Allspace

003  
State Residency?  
Louisiana

558

559

0920176 080001

Figure 6a

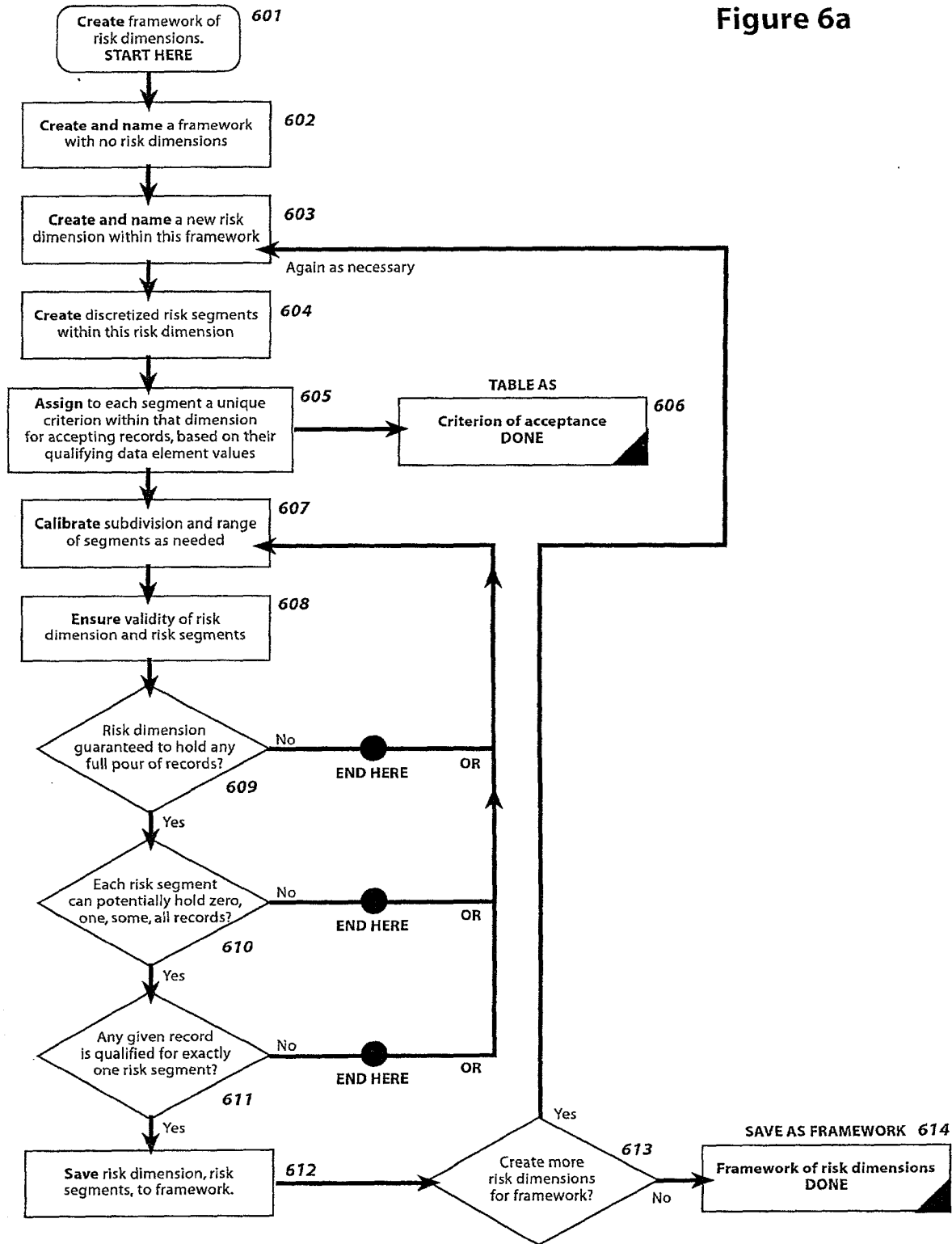


Figure 6b

File Edit View Favorites Tools Help

651
CREATE FRAMEWORK OF RISK DIMENSIONS

21May2001 Mon
663

652
Save framework of risk dimensions.

Risk Segment:
<100k
659

Risk Dimension:
Income Level
660

Framework Name:
Framework For 5 Risks
661

ADD
MODIFY
DELETE

SAVE

662
Framework

653
654

State of Residency

Age by Decade

Gender

Marital Status

656
Income Level
655

658

AL AK AZ AR CA CO CT DE DC FL GA HI ID IL IN IA KS KY LA MEMDMA  
MI MN MS MO MT NE NV NH NJ NM NY NC ND OH OK OR PA RI SC SD TN TX  
UT VT VA VI WAWV WI WY Outside US

20s 30s 40s 50s 60s+

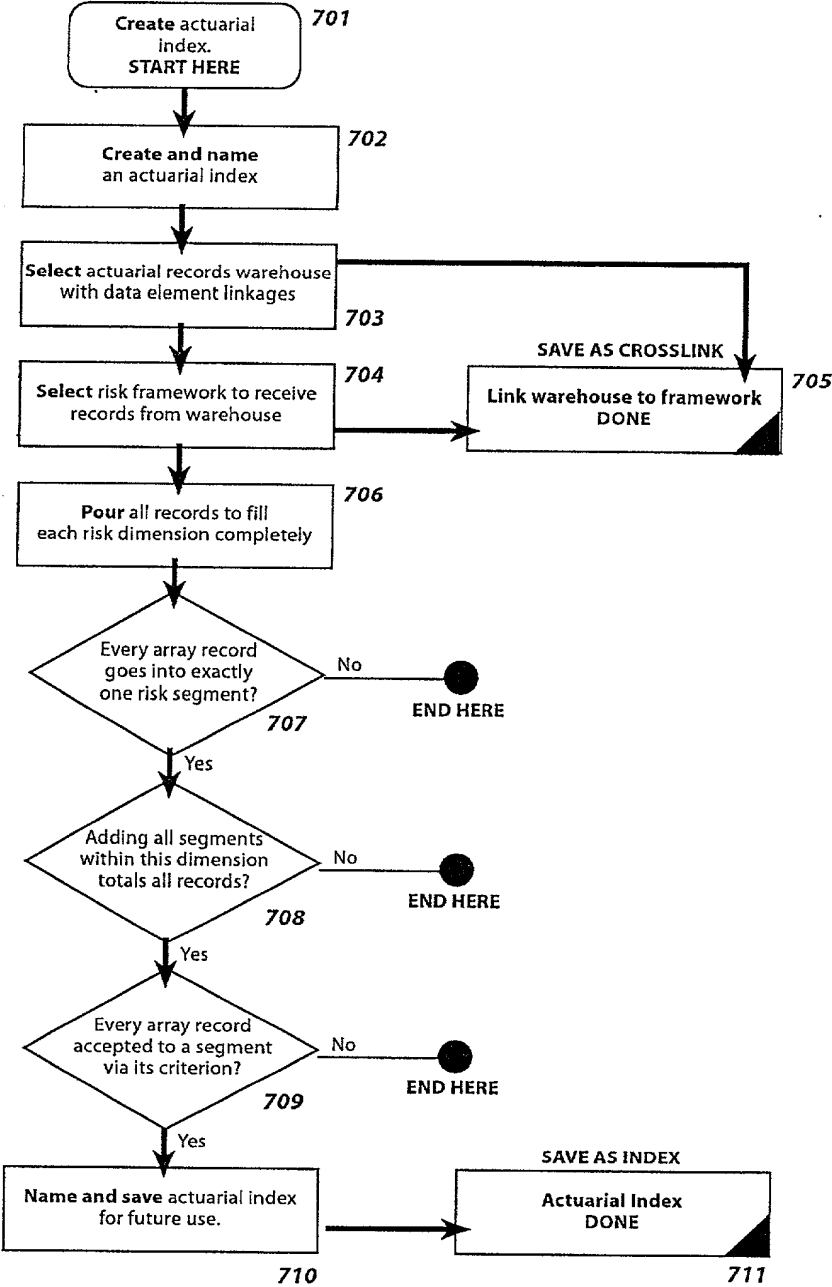
Male Female

Single Married Divorced Widowed

657
<100k >100k

09920176.080101

Figure 7a



### Figure 7b

**ACTUARIAL TRADING SYSTEM - Browser**

File Edit View Favorites Tools Help

## CREATE ACTUARIAL INDEX

21 May 2001 Mon ~ 762

## Link warehouse to framework.

**Warehouse Name:**

## Warehouse 17

**Framework Name:**

## Framework For 5 Risks

**758**

**SAVE**

**SAVE**

**Index Name:** XYZ Blue

## XYZ Blue

**LAPSED**

**Risk Segments**

- State of Residency: NM
- Age by Decade: 50s
- Gender: Male
- Marital Status: Divorce
- Income: <100k

**Gabriel Lua**  
3336 of 10,000

220  
-780  
1000

754  
755  
756  
757

## Gabriel Lua

3336 of 10,000

220

**-780**

1000

## Risk Segments

**State of  
Residency**

**NM**

### Age by Decade

**50s**

Gender

Male

**Marital Status**

## Divor

**Income Level**

**<100**

海峽時報  
 新加坡  
 新加坡

Figure 8a

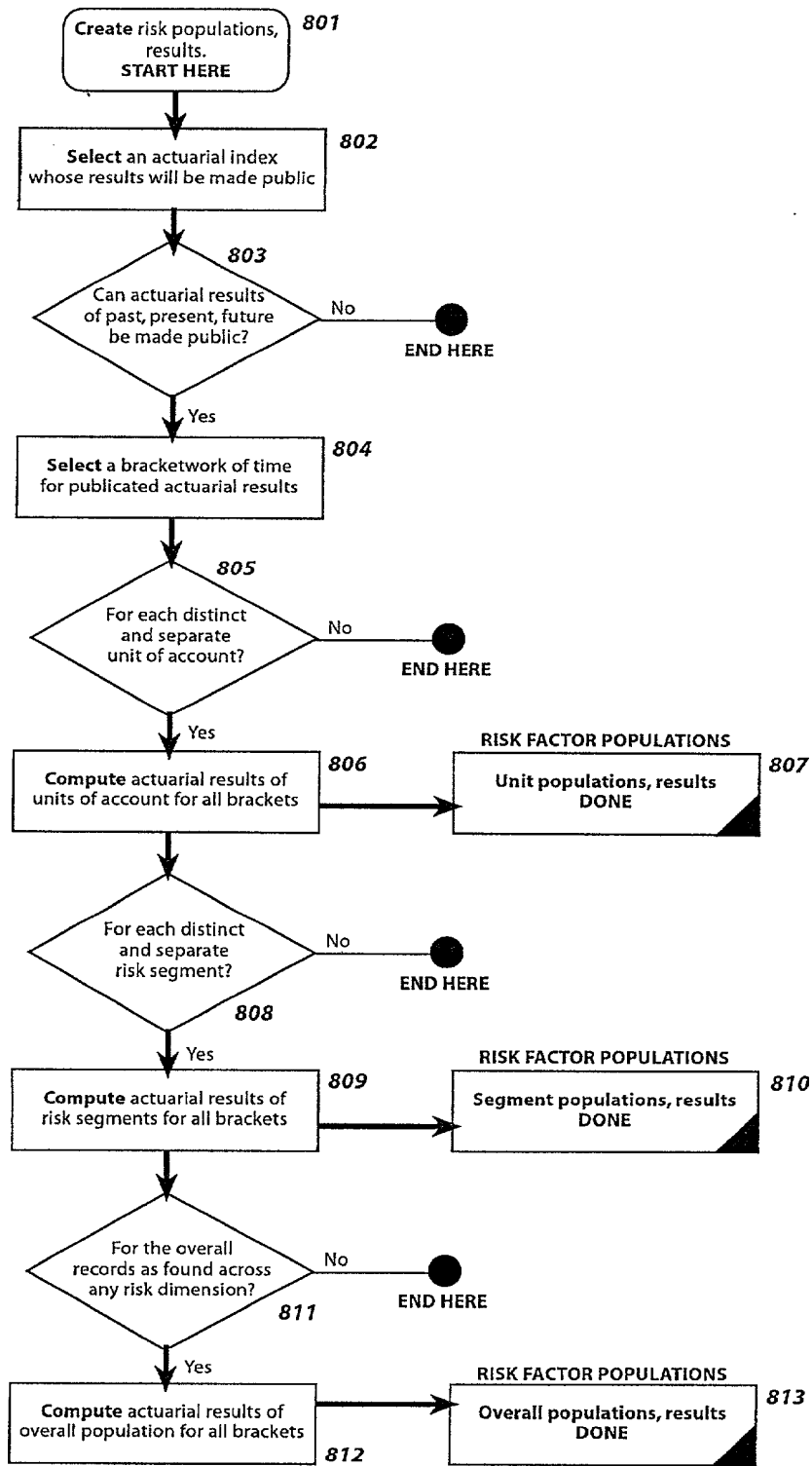
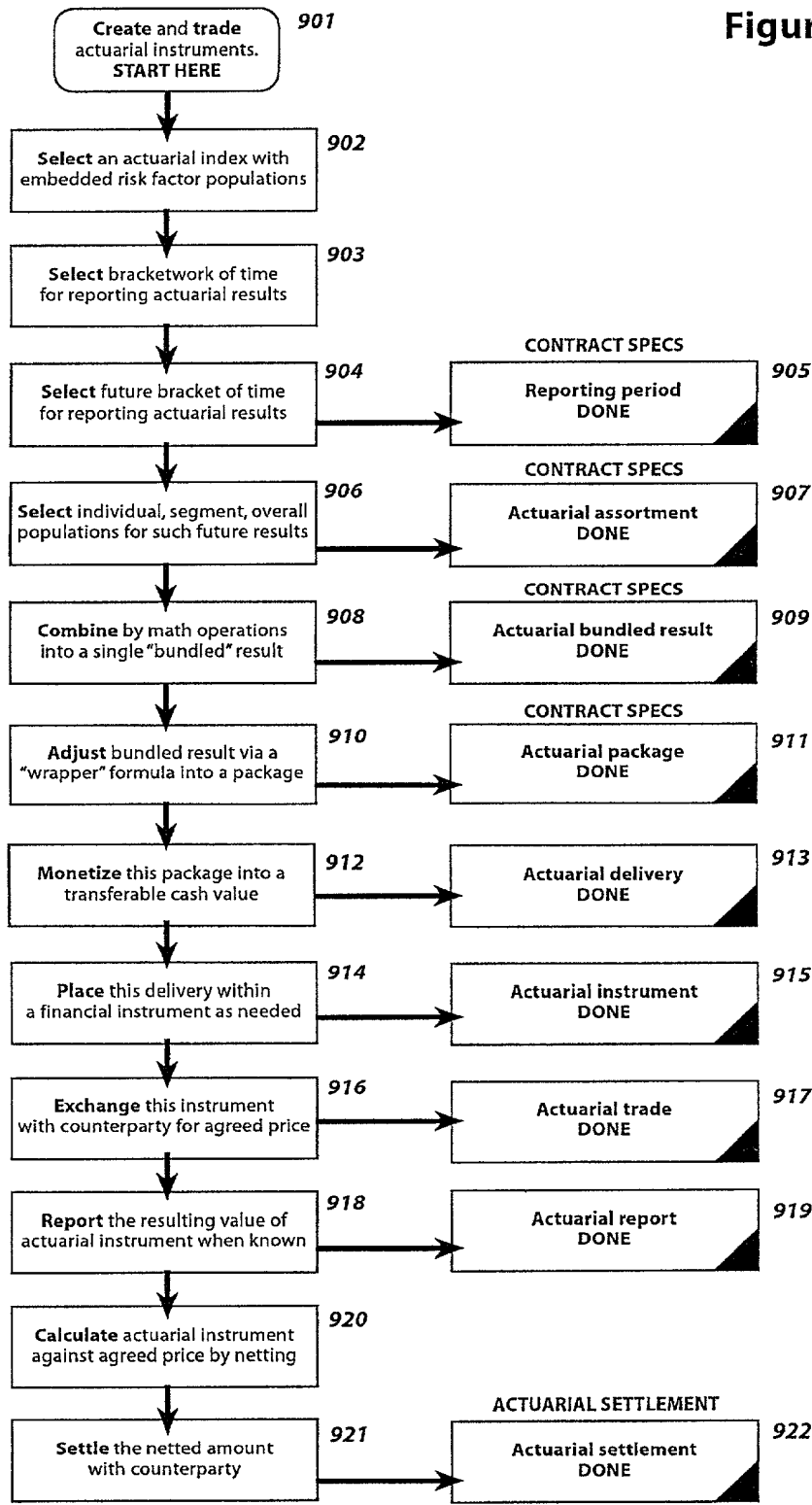




Figure 9a



09920176.080101



Figure 9b

**ACTUARIAL TRADING SYSTEM - Browser**

File Edit View Favorites Tools Help

CREATE AND TRADE ACTUARIAL INSTRUMENTS 950 Today's Date: 03Aug2001 Fri 951

Settle the netted amount in cash with counterparty. 952 Trade ID: Trade #8372 Trade Name: Forward #3 954

955 Trade #8372  
Value: 7,000,000 USD  
Value Date: 03Aug2001 Fri

956 Trade Date: May 5 2001  
Counterparty: ABC Bank

957 Settlement Terms  
Settlement Date: Aug 1 2001  
Settlement: \$7,000,000  
Already Settled?: Yes  
Paid to: Us  
Paid from: ABC Bank

958 Value  
7,000,000.00 USD  
Value Date: 03Aug2001 Fri After Settlement 959  
Calculate Value 961

ADD MODIFY DELETE  
SAVE 960  
Leg

962 Leg #1  
Value: (89,000,000) USD  
Value Date: 03Aug2001 Fri

967 Leg #2  
Value: 96,000,000 USD  
Value Date: 03Aug2001 Fri

We Payout : Forward Price  
Direction of Delivery: We Payout  
Forward Price of  
Multiplier: 1000x 963  
964

965 Agreed Upfront Price: 89,000  
Total Amount: (89,000,000) 966

We Receive : Actuarial Delivery  
Direction of Delivery: We Receive 968  
Actuarial Delivery of  
Multiplier: 1000x 969  
Reporting Period: Jul 2001 970  
Level of Aggregation: Segment 971

Segment Risk Population  
Risk Segment: Male 972  
Risk Dimension: Gender 973  
Public Actuarial Index: XYZ Blue 974  
Number of Units: 4682 Overall Total: 9947 975  
47.07%

976 Result Type  
Inflows Minus Outflows 977  
Report Date: Aug 1 2001 978  
Segment Result: 96,000 979  
Actuarial Delivery: 96,000,000 980  
981  
982  
983  
984

One of Assortment: No  
Combined into Bundle: No  
Wrapped into Package: Yes

Figure 10a

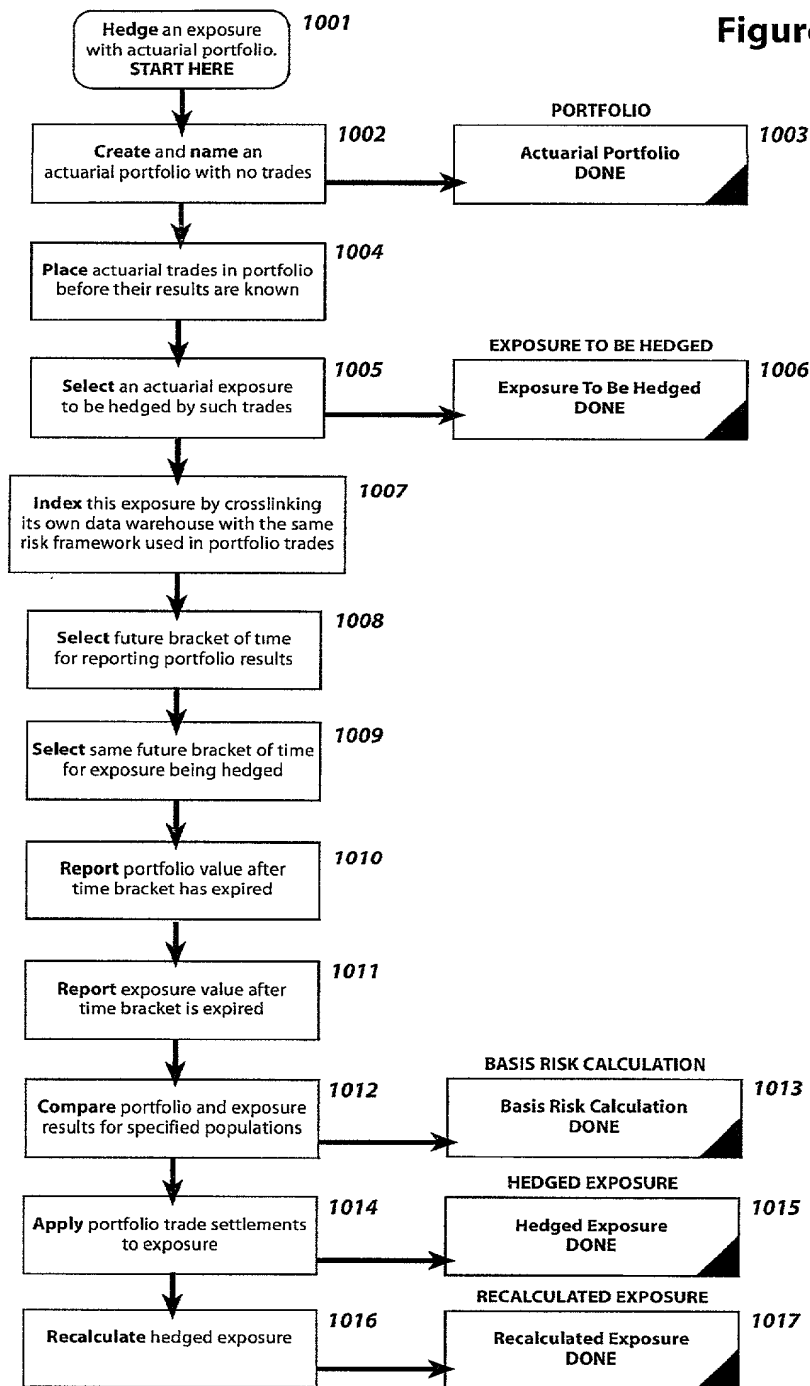


Figure 10b

APPLY PORTFOLIO TRADE SETTLEMENTS TO EXPOSURE 1050

Today's Date: 03Aug2001 Fri 1051

Portfolio Name: Forwards Plus  
Created By: John Major

ADD NAME MODIFY DELETE SAVE

Public Actuarial Index: XYZ Blue  
All Trades Settled?: Yes

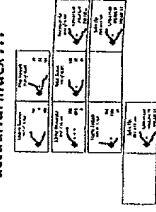
Trade Name	Trade ID	Direction of Delivery	Multiplier	Result Type	Risk Segment	From Risk Dimension
Forward #3	Trade #8372	We Receive Delivery of	1000x	Inflows - Outflows	Male	Gender
Joe's Forward Trade	Trade #8373	We Pay Delivery of	2000x	Inflows - Outflows	21, 22, 23	Age
Deal with ABC Bank	Trade #8374	We Pay Delivery of	10,000x	Inflows - Outflows	1-2 Years Ago	Bankruptcy
Tweak of Portfolio	Trade #8375	We Receive Delivery of	500x	Inflows - Outflows	\$150k Salary Plus	Income Level

Trade Name Continued	Reporting Period	Upfront Agreed Price	Settlement Date	Value of Delivery	Settlement as Hedge	Absolute Value Paid to
Forward #3	Jul 2001	(89,000,000)	August 01 2001	96,000,000	7,000,000	Us from ABC Bank
Joe's Forward Trade	Jul 2001	37,450,000	August 01 2001	(39,000,000)	(1,579,000)	MNO Credit from Us
Deal with ABC Bank	Jul 2001	(25,293,000)	August 01 2001	27,000,000	1,707,000	Us from ABC Bank
Tweak to Portfolio	Jul 2001	(8,000,000)	August 01 2001	8,390,000	390,000	Us from ABC Bank

Trade Name Continued	Hedged Exposure	Analog Result	Specific Basis Risk	Specific Basis Risk %	Basis Risk + Hedge
Forward #3	Home Accounts	93,000,000	3,000,000	+3.23%	11,000,000
Joe's Forward Trade	Home Accounts	(39,000,000)	0	0.00%	(1,579,000)
Deal with ABC Bank	Home Accounts	29,000,000	(2,000,000)	-7.41%	(293,000)
Tweak to Portfolio	Home Accounts	7,190,000	1,200,000	+16.78%	1,590,000

Forward Prices: \$ (84,843,000) 1072  
Public Index Results: 92,390,000 1073  
Total of Settlements as Hedge: 7,518,000 1074  
Basis Risk: 2,200,000 +2.44% 1075  
Hedged Exposure Name: Home Accounts 1076  
Same Indexing?: Yes 1077  
Analog Results: 90,190,000 1078  
Total of Basis Risk + Hedge: 10,718,000 1079

1 From a published actuarial index...



2 Results are monetized and transacted and traded...



3 Placed into a portfolio of settled or unsettled trades...



4 And then applied to an actuarial exposure for hedging purposes.

5 As these trades are settled, their "netted" amounts are felt as impacts.

